

# MAGOH (C-11): sc-271405

## BACKGROUND

MAGOH, the human homolog of *Drosophila mago nashi*, is required for embryo development. MAGOH is ubiquitously expressed in adult tissues. It has an unusual structure consisting of an extremely flat, six-stranded anti-parallel  $\beta$  sheet packed next to two helices. MAGOH interacts with Y14 to form a complex that plays a crucial role in postslicing processing (including nuclear export and cytoplasmic localization of the mRNA), as well as in the nonsense-mediated mRNA decay (NMD) surveillance process. The MAGOH-Y14 complex remains persistently associated in the same position on the mRNA after its export to the cytoplasm and requires translation of the mRNA for removal. This complex may illustrate the mechanism of the pre-mRNA splicing machinery for forming a stable exon-exon junction complex-mRNA at splice junctions.

## CHROMOSOMAL LOCATION

Genetic locus: MAGOH (human) mapping to 1p32.3; Magoh (mouse) mapping to 4 C7.

## SOURCE

MAGOH (C-11) is a mouse monoclonal antibody raised against amino acids 1-146 representing full length MAGOH of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-271405 X, 200  $\mu$ g/0.1 ml.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

MAGOH (C-11) is recommended for detection of MAGOH of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MAGOH (C-11) is also recommended for detection of MAGOH in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MAGOH siRNA (h): sc-60978, MAGOH siRNA (m): sc-60979, MAGOH shRNA Plasmid (h): sc-60978-SH, MAGOH shRNA Plasmid (m): sc-60979-SH, MAGOH shRNA (h) Lentiviral Particles: sc-60978-V and MAGOH shRNA (m) Lentiviral Particles: sc-60979-V.

MAGOH (C-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

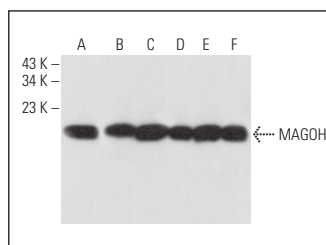
Molecular Weight of MAGOH: 17 kDa.

Positive Controls: BJAB nuclear extract: sc-2145, MOLT-4 nuclear extract: sc-2151 or Raji whole cell lysate: sc-364236.

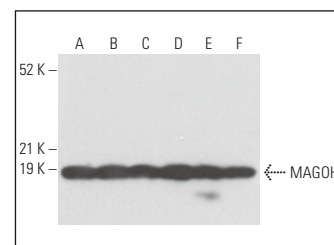
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



MAGOH (C-11): sc-271405. Western blot analysis of MAGOH expression in Raji (A), PC-3 (B) and Jurkat (C) whole cell lysates and Ramos (D), BJAB (E) and MOLT-4 (F) nuclear extracts.



MAGOH (C-11): sc-271405. Western blot analysis of MAGOH expression in Raji (A), K-562 (B), Neuro-2A (C), BYDP (D), MTE1D (E) and A-10 (F) whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Stoll, G., et al. 2013. Deletion of TOP3 $\beta$ , a component of FMRP-containing mRNPs, contributes to neurodevelopmental disorders. *Nat. Neurosci.* 16: 1228-1237.
2. Jung, S., et al. 2017. Inactivation of human DGAT2 by oxidative stress on cysteine residues. *PLoS ONE* 12: e0181076.
3. Chang, C., et al. 2022. The aberrant upregulation of exon 10-inclusive SREK1 through SRSF10 acts as an oncogenic driver in human hepatocellular carcinoma. *Nat. Commun.* 13: 1363.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.